### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14284389 Catalog #: 00718XT3H213TC Frame : 213/5TC Locked rotor time : 21s (cold) 12s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 7.53 A Protection degree : IP55 L. R. Amperes : 50.4 A Cooling method : IC411 - TEFC LRC : 6.7x(Code H) Mounting : F-1 No load current : 3.20 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 58.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 22.3 ft.lb Approx. weight<sup>3</sup> : 216 lb Locked rotor torque : 240 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.38 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 : 244 lb Efficiency (%) 89.4 90.2 91.0 Max. traction Power Factor 0.38 0.60 0.73 0.80 : 460 lb Max. compression Drive end Non drive end 6207 2RS Bearing type 6308 2RS Sealing Oil Seal Lip Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

#### Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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### TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14284389 Catalog #: 00718XT3H213TC TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 22.3 ft.lb ◆ Current - 1 p.u. = 7.53 A (575 V) Performance : 575 V 60 Hz 4P Rated current : 7.53 A Moment of inertia (J) : 1.38 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary** 

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



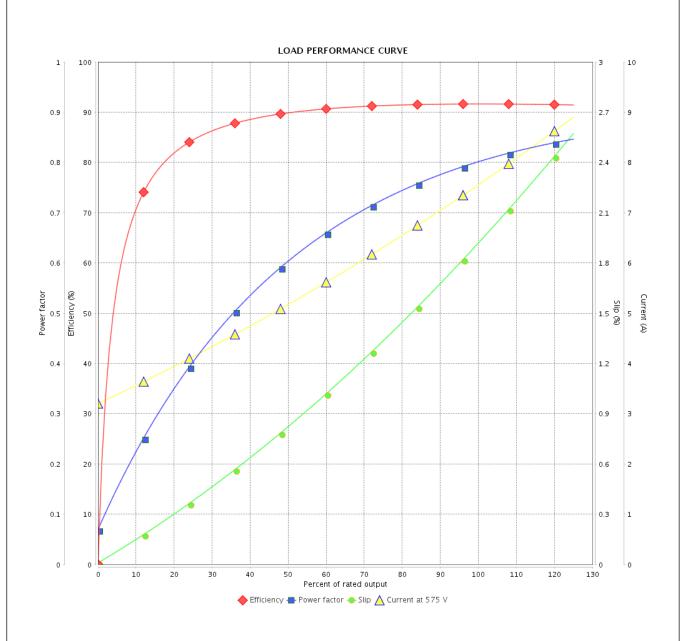
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14284389

Catalog #: 00718XT3H213TC



Performance	: 575 V 60 Hz 4P				
Rated current	: 7.53 A	Moment o	of inertia (J) : 1.38 sq.ft.lb		
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 22.3 ft.lb	Insulation class		:F	
Locked rotor torque	: 240 %	= 10 /1		: 1.15	
Breakdown torque	: 280 %			: 80 K	
Rated speed	: 1765 rpm	Design		: B	
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# THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



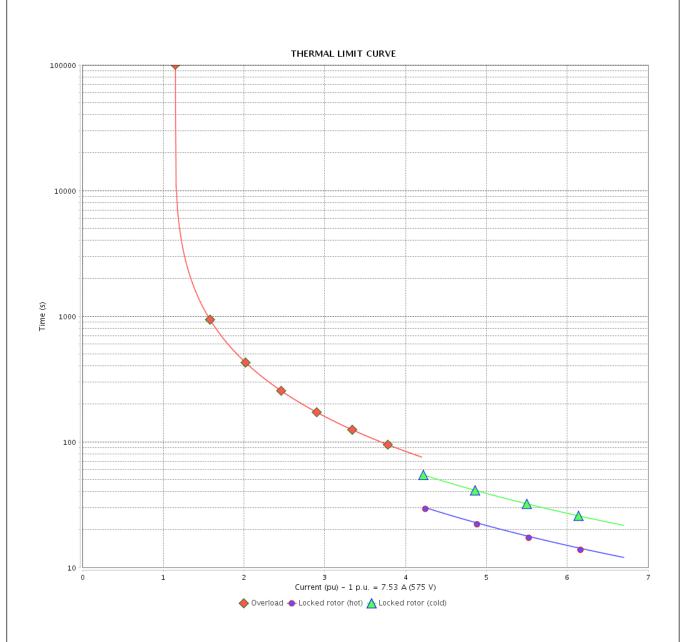
Customer	:					
Product line	: N Pl	NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	14284389 00718XT3H2	213TC
Performance		75 V 60 Hz 4P	Marrie	finantic (I)	. 4 00 6 !!	
Rated current LRC	: 7. : 6.	53 A 7	Moment of inertia (J) Duty cycle		: 1.38 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	2.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 30 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		765 rpm	Design	are rise	: B	
Heating constant						
Cooling constant						
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :



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# VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage

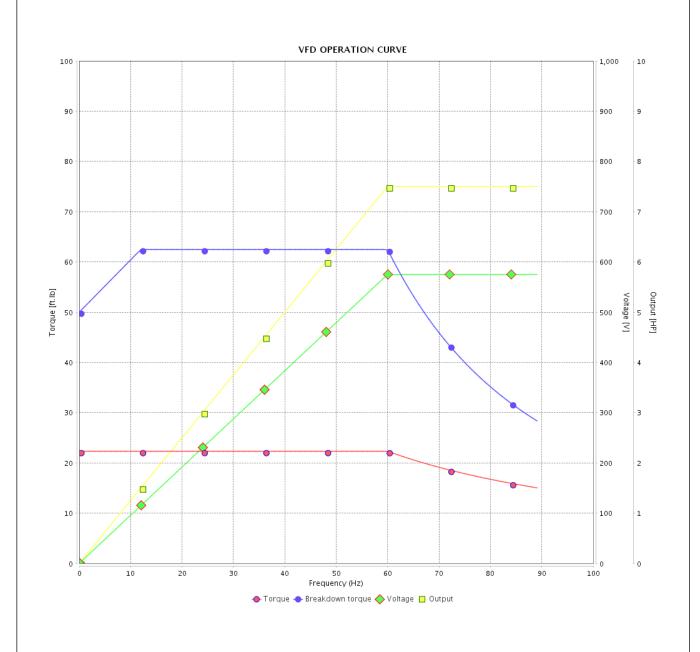


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14284389

Phase

Catalog #: 00718XT3H213TC



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.53 A : 6.7 : 22.3 ft.lb : 240 % : 280 % : 1765 rpm	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) class : F ctor : 1.15	
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